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HAWAIIAN BOTANICAL SOCIETY NEWSLETTER

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Vol. I, No. 7 Honolulu, Hawaii November 1962

HAWAIIAN BOTANICAL SOCIETY MEETING

TIME: Monday, November 5, 1962 - 7:30 p. m.
PLACE: Agee Hall, Experiment Station of the Hawaii Sugar Planters' Association, 1527 Keeaumoku Street, Honolulu.
SUBJECT: "Managing Tropical Forests" (illustrated).
SPEAKER: Dr. Irvine T. Haig, Carnegie Visiting Professor of Forestry (first semester, 1962-63), University of Hawaii.
Dr. Haig retired in 1960 after duties as Secretary of the Fifth World Forestry Congress. He was in Charge of Research and Technology, Forestry Division, Food & Agriculture Organization of the United Nations in Rome, Italy; Director of the South East Forest Experiment Station, Asheville, North Carolina, and led an expedition to Chile in 1943-44. He received his bachelor's degree from Pennsylvania State University and his doctorate from Yale University. He will return to Asheville, North Carolina, next year after providing consultation on a forestry research and instruction program at the University.

ANNUAL MEETING: The annual meeting will be held on Monday, December 3, 7:30 p. m., at Agee Hall. It will include election of officers for the 1963 calendar year.

NEW MEMBERS:

The following were elected to Society membership at the October meeting:

Dr. Tom S. Cooperrider and Mr. George G. Fogg, Department of Botany, University of Hawaii, and Dr. Sanat K. Majumder, Department of Horticulture, University of Hawaii.

CONSTITUTIONAL AMENDMENTS

The following constitutional amendments were proposed by the Executive Committee and presented at the October meeting:

1) Amendment of Article II, Section 2, from "Any person residing in the Hawaiian Islands who is interested in Plant Life is eligible for membership in this Society," to "ANY PERSON INTERESTED IN THE PLANT LIFE OF THE HAWAIIAN ISLANDS IS ELIGIBLE FOR MEMBERSHIP IN THIS SOCIETY."

(Con't on page 2)

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H A W A I I A N B O T A N I C A L S O C I E T Y
c/o Department of Botany, University of Hawaii, Honolulu 14, Hawaii.

OFFICERS:
President - Dr. Charles H. Lamoureux (University of Hawaii)
Vice-President - Dr. Maxwell S. Doty (University of Hawaii)
Secretary----------Alvin K. Chock (U. S. Dept. of Agriculture, B. P. Bishop Museum, University of Hawaii)
Treasurer---------William M. Bush (Castle & Cooke, Inc.)
Executive Committee Members: Officers and Dr. Donald P. Gowing (Pineapple Research Institute of Hawaii) and Mrs. J. H. Beaumont.
Membership Committee: Dr. Constance E. Hartt (Hawaiian Sugar Planters' Association), chairman; Dr. Edward J. Britten (University of Hawaii) and Iichi Yanagihara (Pineapple Research Institute of Hawaii).

EDITORIAL STAFF:
Editor----------Alvin K. Chock
Reporters: Charles H. Lamoureux (UH)
James Brewbaker (UH)
Constance E. Hartt (HSPA)
Donald P. Gowing (PRI)

The Hawaiian Botanical Society Newsletter is published monthly, except during the summer months of July, August and September. It is distributed to Society members and other interested individuals and institutions, with the purpose of informing them about botanical news and progress in Hawaii (and the Pacific). The deadline for submission of news items is the 20th of each month prior to publication.

MEMBERSHIP DUES: Annual, $2.00 for the calendar year (to be submitted to the Treasurer, Mr. Wm. M. Bush, P. O. Box 2990, Honolulu 2, Hawaii).

C O N S T I T U T I O N A L A M E N D M E N T S (con't from page 1)

2) The deletion of Article VI, Section 2, which reads: "Any member of the Society absent from the island of Oahu for one or more years shall be excused from the payment of dues for the period of his absence, but not for a period of absence of less than one year."

Adoption of these amendments at the November meeting would permit non-residents who specialize in various aspects of the Hawaiian flora to become Society members.

B E R N I C E P. B I S H O P M U S E U M

A new exhibit, "Arts of the South Seas," is located in Pacific Hall of the Bernice P. Bishop Museum. The exhibition was arranged for Aloha Week. A special preview of the exhibit and a dance program, arranged by Mrs. Joann Kealiinohomoku, was held for museum association members and guests on October 18. The exhibit includes art objects and artifacts from Polynesia, Micronesia and Melanesia. The museum's exhibition halls are opened from 9 a. m. to 4:30 p. m., Monday through Saturday; and from 2:00 p. m. to 5:00 p. m. on Sunday.

"Kilolani," the museum's planetarium, is currently showing "How Big -- How Far." Shows are held on Tuesday through Friday at 10:30 a. m. and 3:00 p. m.; Saturday and Sunday at 2:00 p. m. and 3:00 p. m.; and on Wednesday, Friday and Saturday at 8:00 p. m. The planetarium is closed on Monday. Admission charges are 25¢ for children; 75¢ per adult for the day shows; and $1.00 for the evening shows.

Mrs. Genevieve Highland was appointed Bishop Museum Press Editor. She succeeds Mrs. Eloise Christian, who left for California last summer. Mrs. Highland comes to the museum from the Council of State Government in Chicago, Illinois, where she

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B E R N I C E P. B I S H O P M U S E U M (con't from page 2)

was Editorial Associate from 1959-1962. Prior to that time she was Assistant Managing Editor for the Journal for the Study of Inter-Personal Relations (Psychiatry) and Editorial Assistant with the American Psychological Association in Washington, D. C. She has over 15 years of editorial experience and has an M. A. in Anthropology and a Ph. B. in English and Social Sciences from Northwestern University.

A 1961 legislature appropriation for museum repairs has made it possible for the painting of the outside walls of the research halls and renovations inside. The herbarium's work tables are being refinished, a cabinet built and new overhead lights installed.

P A U L C. H U T C H I S O N

The Friends of Foster Garden, Inc., is bringing Mr. Paul C. Hutchison, Senior Botanist, Botanical Gardens, University of California, Berkeley, California, to Hawaii for ten days at the end of the month. He will serve as consultant on the building of the Lyon Botanical Garden within Koko Crater. His experiences with dryland plants have been extensive.

Mr. Hutchison has been a botanist at Berkeley since 1949. He was botanist for the University of California Botanical Gardens Fifth (1951-52) and Sixth (1957) Expeditions to the Andes. Over five thousand miles in Chile, and short stops in Peru, Puerto Rico and the Virgin Islands were made during the Fifth Expedition. He covered 11,000 miles in Peru and 1,000 miles in Bolivia, with stops in Mexico and Nicaragua during the Sixth Expedition.

In 1959 he received a John Simon Guggeheim Memorial Foundation Fellowship to pursue taxonomic studies in herbaria, botanical gardens and private gardens of the eastern U. S. and Europe. His current research is on Peruvian cacti and the South African genus Adromischus.

He will be available for local lectures, all of which will be illustrated. The lectures include: plant collecting in the Andes, around the world with succulent plants, an introduction to succulent plants, the cactus family, the stonecrops, plant importation and introduction, color portraits of orchid species, and special subjects connected with succulent plants. Further information can be obtained from Mr. Paul R. Weissich, Director of Foster Botanical Garden (tel. 59-373).

He recently donated a collection of cacti to Foster Garden.

I N M E M O R I A M :

The following resolutions were adopted by the Society at the October meeting:

MRS. GEORGE O. BURR

WHEREAS, Mrs. George O. Burr (Mildred Lawson Burr), a member of the Hawaiian Botanical Society, former head of the biology department at Edison High School, Minneapolis, research scientist and co-discoverer of the essential fatty acids, passed away on June 22, 1962, now therefore

BE IT RESOLVED, that the members of the Hawaiian Botanical Society deeply regret their loss and extend sincere sympathy to Dr. Burr and to Mrs. Lawson.

----C. E. Hartt

I N M E M O R I A M : (con't from page 3)

F. G. KRAUSS (1870 - 1962)

Frederick George Krauss was born in San Francisco, California, May 6, 1870, and died in Honolulu, June 6, 1962, at the age of 92. An educator, agriculturist, practical farmer, good citizen and father of an outstanding family, he was a kindly man whose friendly, helpful thoughts and energetic, purposeful work has advanced many enterprises in Hawaii and throughout the Pacific area. He has been called the "father of diversified agriculture in Hawaii."

Mr. Krauss was educated in the schools of San Francisco, Stanford University, the University of California and University of Berlin, and was given an honorary Doctor of Science degree by the University of Hawaii in 1921.

After conducting seed-growing and crop experiments and teaching botany in California, he came to Hawaii, August 1, 1901, as instructor in agriculture at the Kamehameha Schools. He became agronomist with the Hawaii Agricultural Experiment Station in 1906; studied rice, cotton and other crops in Japan and China for the Hawaii Board of Agriculture and Forestry in 1909; and was professor of agriculture at the College of Hawaii from 1911-1912.

Then, to demonstrate that dirt farming could be made a success in Hawaii, he took his family to Maui and established the "New Era Homestead" farm on 50 acres at Haiku. With the development of agricultural extension by the College of Hawaii, Mr. Krauss became its Maui superintendent, and the Homestead became an experimental farm, making outstanding contributions during World War I.

When the college became the University of Hawaii in 1921, Dr. Krauss was persuaded to return to the campus as Professor of Agronomy and Genetics, and from August, 1929, until he retired in September, 1936, he was Director of the Agricultural Extension Service. During 1927-28 he carried out extensive agricultural exploration throughout the Orient, Malaya and India.

He served as a consultant for many projects. He became a member of the Hawaiian Homes Commission in 1935, serving it so well that a street in Papakolea was named in his honor. He was a member of many scientific organizations and was a charter member of the Hawaiian Botanical Society. We, the members of this Society, desire to record our deep appreciation of the many valuable contributions which Dr. Krauss has made, and to express our Aloha to his family.

---E. H. Bryan, Jr.

U N I V E R S I T Y O F H A W A I I

Dr. Haruyuki Kamemoto, Professor of Horticulture, will be at Katsetsart University, Bangkok, Thailand, from 1962 to 1964. He also received a $2,000 grant from Stanley Smith in the Bahamas and $500 from the American Orchid Society for research in orchid genetics. Dr. Kamemoto's replacement this year (1962-63) is Dr. Thomas Sheehan, Associate Professor of Horticulture at the University of Florida, Gainsville, Florida. Dr. Sheehan's field is orchids.

Dr. James Brewbaker, Assoc. Prof. of Horticulture, received a $15,000 a year grant (for a three year period) from the Atomic Energy Commission for "Radiobiological studies of pollen cytogenetics and pollen cell elongation."

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UNIVERSITY OF HAWAII (cont'd from page 4)

Dr. Toshio Murashige, Assist. Prof. of Horticulture, received a $3,750 per year grant (for a three year period) from the Stanford Research Institute for "Investigations of the papaya replant problem with special reference to the growth inhibiting substance in papaya"; a $7,500 per year grant (for a three year period) from the National Institute of Health for research on organ differentiation in cultivated plant tissue; and a $14,835 grant (with $15,000 for the following two years) from the National Science Foundation for research on growth inhibitors in papaya.

Dr. James C. Gilbert, Chairman of the Department of Horticulture, received a National Science Foundation grant of $20,790 (to be matched with State funds) for the improvement of undergraduate instruction with new scientific equipment.

Dr. Harold Mouat, Head of the Pomology Dept., Fruit Research Division, Department of Science and Industrial Research of the New Zealand Government, Auckland, New Zealand, and Dr. James W. Cameron, Geneticist, Department of Horticulture, University of California at Riverside, California, are East-West Center Senior Scholars in Horticulture. Both will be here for five months. Dr. Cameron's research deals with citrus and maize.

Dr. George W. Gillett, Associate Professor of Botany, received a $3,900 grant from the National Science Foundation for the study of species of the genus Phacelia. He will arrive in Honolulu in August, 1963, from Turku, Finland, where he is a Fulbright Fellow at the Turku University.

Dr. Lindsay S. Olive of Columbia University, New York, New York, has been appointed Visiting Professor of Botany for the second semester, 1963. His field is mycology.

Preservation note: A member of the botany faculty was collecting some plant specimens for his class. He was stopped by the campus police and reprimanded for taking portions of the plants, and was informed that there were many rare plants on the campus. This awareness of the necessity of preserving plants by the University's protection arm has resulted in the issuance of "collecting permits."

Dr. Harold St. John, Senior Professor Emeritus of Botany, is a Fulbright Fellow at the University of Cairo, Cairo, Egypt, for the academic year 1962-63. He will lecture in the Department of Botany.

An advisory committee on forestry research was formed by Dr. Morton M. Rosenberg, Dean of the College of Tropical Agriculture, to serve on matters dealing with instruction and research in the disciplines pertaining to forestry. The committee consists of Dr. D. H. Habeck, Dr. O. V. Holtzmann, Dr. J. W. Hylin, Dr. James Lockhart, Dr. B. D. van't Woudt, Dr. Robert Warner, Dr. O. R. Young, Dr. Maxwell S. Doty, Dr. Hubert Frings and Dr. I. T. Haig (Carnegie Visiting Prof. of Forestry).

HAWAIIAN ACADEMY OF SCIENCE

The fall session of the Hawaiian Academy of Science will meet on November 15 and 16 (Thursday and Friday) at 7:30 p. m., Agee Hall, Experiment Station of the Hawaii Sugar Planters' Association. Papers of general interest will be presented and consideration will be given to a proposed constitutional amendment about council membership, which will broaden and extend the council and provide for more continuity in council membership.

B O T A N I C A L N O T E S

Dr. Pierre Chouard, Professor of Botany, Sorbonne University, Paris, France, spent two days in Hawaii. One was on the island of Oahu, and the other on the island of Hawaii. During this time he collected about 400 herbarium numbers of plant and seed specimens. His field is plant physiology, but his interests lie in all botanical fields.

WANTED: PLANTS - - Dr. Charles Wright of the Food & Agriculture Organization of the United Nations in Santiago, Chile, was here for one day. He is concerned with the revegetation of Easter Island, located at 28° South Latitude and with an average rainfall of 49 inches per year, of which 40 inches is lost by evaporation. He wants to obtain seeds of Hawaiian plants which will grow on the island. Anyone who can assist in this project should send seeds to Dr. C. H. Lamoureux (Chairman, Dept. of Botany, University of Hawaii) by December 10, 1962.

There are about 2,000 people and 50,000 small sheep (about the size of a large cat) on the island. Dr. Wright's itinerary includes New Zealand and Rome before his return to Chile in January, 1963. The seeds will be sent to Easter on the annual Chilean Navy supply boat. It will remain at Easter for one week, returning to the island the following year.

Mr. H Ivan Rainwater, Inspector in Charge, Plant Quarantine Division, Agricultural Research Service, U. S. Department of Agriculture, Honolulu, attended the Western Plant Board in Sacramento and the Federal Plant Quarantine Port Conference in San Francisco. He chaired the discussion on airport staffing and plans to visit other mainland Plant Quarantine ports. Mr. Marshall M. Ross, Principal Assistant, is Acting Inspector in Charge until mid-November when Mr. Rainwater returns.

W. W. Goodale Moir will be spending the next few months on an extensive orchid collecting trip around the world. Some of the plants will be added to the Foster Botanical Garden's orchid collection.

Dr. E. J. Britten has been appointed to the Society's Membership Committee, vice Kamemoto, for the remainder of the year.

U N I V E R S I T Y O F H A W A I I S E M I N A R S

BOTANY: Every Thursday, 1:10 p. m., 203 Dean Hall. Nov. 1, Dennis Greathouse, "Ultrastructure of meristematic cells"; Nov. 8, Richard Buggeln, "What is a species?"; Nov. 15, Ting Yun Chin, "Gibberellic Acid," and Rollo Delafuente, "Interaction of Gibberellic Acid and auxins"; Nov. 22, holiday; Nov. 29, Marylin Galang, "Origin of the Hawaiian flora"; Dec. 6, Didin Sastrapradja, "Tissue differentiation, especially in xylem." The schedule listed above is subject to change; for further information, contact Dr. George Hollenberg.

PLANT PHYSIOLOGY: Every Tuesday, 12 noon, 301 Keller Hall. Oct. 30, J. Chinn, "Growth substances and plant breeding," and Nora Chen, "Growth substances and fruit growth"; Nov. 6 holiday; Nov. 13, Miss L. Espiritu, "Growth substances and pollination," and P. Rangnekar, "Auxins and geotropism"; Nov. 20, R. dela Pena, "Structure and activity of auxins," and J. Acosta, "Auxin changes caused by plant disease"; Nov. 27, R. Williams, "Gibberellin and light responses of plants"; and N. Magalona, "Gibberellin and cold responses of plants;" Dec. 4, B. Thipphawong, "Dwarfism as related to gibberellin," and N. Nwachuku, "The 'anti-gibberellins'." All who are interested are urged to attend (sack lunches should be brought) and participate in the discussions. For further information, contact Dr. A. Carl Leopold.

CONSERVATION COUNCIL FOR HAWAII

The general meeting of the Conservation Council for Hawaii will be held on November 8 (Thursday) at 7:30 p. m., Agee Hall, HSPA Experiment Station. Mr. Robert Wenkam will give an illustrated talk entitled, "Open Space -- Oahu's Disappearing Wealth." The business meeting agenda includes consideration of the revised constitution, committee (land, water, flora, fauna, sites and recreation) reports and election of officers.

The constitution was revised by a special committee (Charles Lamoureux, chairman; members: Agnes Conrad, John Mink, Ernest Holt, Michael Ord, David Sanford, William V. Ward, Herbert Welder and Robert Wenkam). The object of the revision was to enable the Council to become more effective in furthering the aims of conservation in Hawaii today. The revised constitution provides for emphasizing the individual member rather than organizations or agencies, more frequent general meetings (quarterly), election of officers in November (rather than February) in order that the organization be running smoothly at the time the Legislature is in session, a Recreation Committee, administrative committees concerned with legislation and education, greater flexibility of operation by the Council and Executive Board, and increased participation by individuals in the work of the permanent committees. If the revision is adopted by the membership, then the November meeting will become the Annual Meeting and annual reports will be presented and officers for the next year elected.

The nominating committee proposes the following names for election at the Annual Meeting: Dr. Roland W. Force, President; Dr. E. J. Britten, Vice President; Mr. H. R. Welder, Jr., Secretary; Miss I. Brubacher, Treasurer. Committee Chairmen: Mr. R. Hefty, Land; Mr. P. H. N. Kendall, Water; Dr. C. H. Lamoureux, Flora; Dr. H. Frings, Fauna; Mr. T. Damron, Sites; and Mr. L. Gill, Recreation.

The Society's representatives to the Council are: Donald Anderson and Alvin K. Chock.

The first issue of the Council's Newsletter was published last month.

RECENT PUBLICATIONS

AWADA, MINORU. (Jan.) 1962. Soil moisture tension in relation to growth and yield of papaya (Carica papaya L.). HAES, UH Tech. Bul. 49: 15 pp., 5 tabs., 4 figs.

DEGENER, OTTO. (Sept.) 1961. Scaevola misconceptions. Taxon X(7): 227-228.

FOSBERG, F. R. (Sept.) 1961. Scaevola sericea Vahl versus S. taccada (Gaertn.) Roxb. Taxon X(7): 225-226.

_____. (June) 1962. The Indo-Pacific strand Scaevola again. Taxon XI(5): 181.

_____. (June 15) 1962. Miscellaneous notes on Hawaiian plants. B. P. Bishop Mus. Occ. Pap. XXIII(2): 29-44.

HAMILTON, R. A., & E. T. FUKUNAGA. (May) 1962. Better rootstocks for Citrus grown in Hawaii. CES, UH Circ. 397: 12 pp., 1 tab., 3 figs.

HIU, DAWES N., & PAUL J. SCHEUER. 1961. The volatile constituents of passion fruit juice. Jour. Food Sci. 26(6): 557-563, 6 tabs., 2 figs.

ROCK, J. F. (Aug. 10) 1962. A new Hawaiian Pritchardia. B. P. Bishop Mus. Occ. Pap. XXIII(4): 61-63, 1 fig.

(con't page 8)

R E C E N T P U B L I C A T I O N S (con't from page 7)

ROCK, J. F. (Aug. 17) 1962. Hawaiian Lobelioids. B. P. Bishop Mus. Occ. Pap. XXIII(5): 66-75, 5 figs.

SCHEUER, PAUL J., & JANE T. HAMAMOTO METZGER. 1961. Hawaiian plant studies. VI. The structure of holeinine. Jour. Org. Chem. 26: 3069-3071, 1 fig.

SCHEUER, PAUL J., MILDRED Y. CHANG & CARL E. SWANHOLM. 1962. Hawaiian plant studies. VIII. Isolation of chelerythrine and dihydrochelerythrine from Fagara semiarticulata. Jour. Org. Chem. 27: 1472-1473.

(Con't on page 9)

M E M B E R S H I P D I R E C T O R Y C H A N G E S:

1) Deletions:

BURR, Mrs. George
EKERN, Dr. Paul
JOHNSON, Miss Evelyn
THOMPSON, Robert O.

2) Address changes:

BREWBAKER, Dr. James; 606 Ululani St., tel. 267803 (res.) (res. add.only).
KAMEMOTO, Dr. H.; c/o American Embassy, Bangkok, Thailand (1962-64).
McGUIRE, Dr. Donald; National Science Foundation, Washington 25, D. C. Assistant Projects Specialist, Secondary Schools Division.
ST. JOHN, Dr. Harold; Department of Botany, University of Cairo, Cairo, Egypt (1962-63).

3) Additions:

COOPERRIDER, Dr. Tom S.; Department of Botany, University of Hawaii, Honolulu 14; 2640 Dole St., Apt. A-1, Honolulu 14; tel. (bus.) 992-051, ext. 369, (res.) 966-091; Visiting Assistant Professor of Botany, UH; taxonomy of vascular plants (hybridization in Circaea and Ohio flora).

FOGG, George G.; Department of Botany, University of Hawaii, Honolulu 14; 1630 Makiki St., Apt. A-105, Honolulu 14; tel. (bus.) 992-051, ext. 369, (res.) 966-098; Instructor in Botany, UH; plant ecology and taxonomy (introgression in Scaevola).

MAJUMDER, Dr. Sanat K.; Department of Horticulture, University of Hawaii, Honolulu 14: (3A Naba Basu Lane, Calcutta 10, India); tel. (bus.) 992-051, ext. 351; Post-doctoral Fellow in Horticulture, UH; radiation biology, nutrition of crop plants, physiological genetic studies (radiation biology in relation to pollen grains, germination and growth).

N O T I C E:

The Outdoor Circle cordially invites the members and friends of the Hawaii Botanical Society to a special meeting at Kapahulu Library, Wednesday, November 28, 1962, to hear Mr. Richard Kageyama, of the City Council, tell about the City Planning Conference in Paris and to show his slides. Coffee will be served at 10:00 a. m.---meeting at 10:30.

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R E C E N T P U B L I C A T I O N S (con't from page 8)

ABBOTT, ISABELLA A. (Aug. 31) 1962. Some Liagora-inhabiting species of Acrochaetium. B. P. Bishop Mus. Occ. Pap. XXIII(6): 77-120, 17 figs.

WUOTILA, JOHN L. (Aug. 1) 1962. Conifer and taxad identification: Key to the genera of dwarf conifers and taxads of Japan based on leaf and twig characteristics. Plant Quarantine Memorandum 674, i + 15 pp., illus. PQD, ARS, USDA.

D U E S

R E M I N D E R

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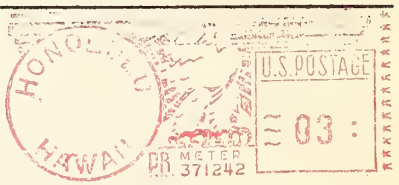
The membership dues for 1963 (calendar year) are payable on or before the first meeting of the year 1963. Please remit the sum of two dollars ($ 2.00) to the Treasurer (Mr. William M. Bush, Castle and Cooke, Inc., P. O. Box 2990, Honolulu 2, Hawaii).

HAWAIIAN BOTANICAL SOCIETY
c/o B. P. Bishop Museum
Honolulu 17, Hawaii



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